

IN THE CLAIMS

Please amend claim 5; and

Please add new claims 31 and 32 as follows:

Listing of Claims.

A copy of all pending claims and a status of the claims is provided below.

Claims 1-4 (Canceled).

5. (Currently Amended) An electromagnetic lock comprising:

a body;

a linearly movable retractable sliding bolt;

an electromagnet core arranged in the body; and

a movable plate arranged in the body and being structured and arranged to contact and support the retractable sliding bolt and to function as an armature of an electromagnet,

wherein the movable plate is movable via two forces acting in the same direction and is structured and arranged to move the retractable sliding bolt linearly to a protruding position, and

wherein one of:

the movable plate moves the retractable sliding bolt to the protruding position;

and

the electromagnet core is arranged between a front side of the movable plate and a free end of the retractable sliding bolt.

6. (Previously Presented) The lock of claim 5, wherein at least one of:
the retractable sliding bolt is configured for a swinging-type door;
the retractable sliding bolt comprises a projecting portion having oppositely arranged tapered surfaces; and
the retractable sliding bolt comprises a pointed projecting portion.
7. (Previously Presented) The lock of claim 5, wherein the movable plate and the retractable sliding bolt are movable in the same direction.
8. (Previously Presented) The lock of claim 5, wherein the movable plate and the retractable sliding bolt are movable along a bolt displacement direction.
9. (Previously Presented) The lock of claim 5, wherein the two forces acting in the same direction are generated by springs and the electromagnet.
10. (Previously Presented) The lock of claim 9, wherein the springs bias the movable plate and the retractable sliding bolt towards the protruding position.
11. (Previously Presented) The lock of claim 5, wherein the movable plate is guided on columns and the columns comprise axes which are arranged parallel to a bolt displacement direction.

12. (Previously Presented) An electromagnetic lock comprising:

an electromagnetic core;

a linearly movable retractable sliding bolt;

an armature plate supporting the retractable sliding bolt; and

springs biasing the armature plate towards the electromagnetic core,

wherein, when the electromagnetic core is energized, the armature plate linearly moves and positions the retractable sliding bolt in a protruding position and maintains the electromagnetic lock in a locked position, and

wherein, when the electromagnetic core is not energized, forces generated by the springs maintain the protruding position of the retractable sliding bolt.

13. (Previously Presented) The lock of claim 12, wherein the retractable sliding bolt is configured for a swinging-type door, and wherein, when the electromagnetic core is not energized, only forces generated by the springs maintain the protruding position of the retractable sliding bolt.

14. (Previously Presented) The lock of claim 12, wherein the springs are mounted to members passing through the armature plate.

15. (Previously Presented) The lock of claim 12, wherein the armature plate is guided on columns with axes which are arranged parallel to a bolt displacement direction.

16. (Previously Presented) The lock of claim 12, wherein at least one of:
the retractable sliding bolt comprises a projecting portion having oppositely arranged tapered surfaces; and

the retractable sliding bolt comprises a pointed projecting portion.

17. (Previously Presented) An electromagnetic lock comprising:
a body;
an electromagnetic core arranged in the body;
a bolt member comprising a protruding portion and being movable linearly to a protruding position;
an armature plate arranged in the body; and
springs arranged in the body and biasing the armature plate towards the electromagnetic core,

wherein, when the electromagnetic core is energized, the electromagnetic lock is maintained in a locked position, and

wherein, when the electromagnetic core is not energized, forces generated by the springs maintain the protruding position until the bolt member experiences a force tending to move the bolt member linearly into the body.

18. (Previously Presented) The lock of claim 17, wherein, when the electromagnetic core is not energized, only forces generated by the springs maintain the protruding position of the bolt member.

19. (Previously Presented) The lock of claim 17, wherein the bolt member is configured for a swinging-type door and the projecting portion includes oppositely arranged tapered surfaces.

20. (Previously Presented) The lock of claim 17, wherein the springs are mounted to members passing through the armature plate.

21. (Previously Presented) A method of locking a door, the method comprising:
arranging the electromagnetic lock of claim 17 on an edge of the door;
arranging a catch plate on a fixed member, the catch plate comprising an opening receiving therein the protruding portion of the bolt member; and
energizing the electromagnetic core in order to maintain the locked position.

22. (Previously Presented) The method of claim 21, wherein, when the electromagnetic core is de-energized, biasing forces generated only by the springs maintain engagement between the opening and the protruding portion of the bolt member, and the springs oppose and allow movement of the bolt member into the body.

23. (Previously Presented) A method of locking a door, the method comprising:
arranging the electromagnetic lock of claim 5 on an edge of the door;
arranging a catch plate on a fixed member, the catch plate comprising an opening receiving therein a protruding portion of the retractable sliding bolt; and
energizing the electromagnet core in order to maintain a locked position,

wherein, when the electromagnet core is de-energized, biasing forces generated only by springs maintain engagement between the opening and the protruding portion of the retractable sliding bolt.

24. (Previously Presented) A method of locking a door, the method comprising:
arranging the electromagnetic lock of claim 12 on an edge of the door;
arranging a catch plate on a fixed member, the catch plate comprising an opening receiving therein a protruding portion of the retractable sliding bolt; and
energizing the electromagnetic core in order to maintain the locked position.

25. (Previously Presented) The lock of claim 5, wherein the electromagnet core is arranged between the movable plate and a protruding portion of the retractable sliding bolt when the retractable sliding bolt is positioned in the protruding position.

26. (Previously Presented) The lock of claim 25, further comprising springs arranged on a side of the movable plate opposite the retractable sliding bolt, wherein, when the electromagnet core is energized, the retractable sliding bolt is prevented from moving back away from the protruding position and wherein, when the electromagnet core is not energized, only the springs act to prevent the retractable sliding bolt from moving back away from the protruding position.

27. (Previously Presented) The lock of claim 5, wherein the movable plate is guided linearly in the body when the retractable sliding bolt moves to the protruding position and is

guided linearly when the retractable sliding bolt moves away from the protruding position and wherein the electromagnetic lock is arranged on a swinging-type door.

28. (Previously Presented) The lock of claim 12, wherein the electromagnetic core is arranged between the armature plate and a protruding end of the retractable sliding bolt when the retractable sliding bolt is positioned in the protruding position.

29. (Previously Presented) The lock of claim 12, wherein the armature plate is guided linearly when the retractable sliding bolt moves to the protruding position and is guided linearly when the retractable sliding bolt moves away from the protruding position and wherein the electromagnetic lock is arranged on a swinging-type door.

30. (Previously Presented) The lock of claim 17, wherein the electromagnetic core is arranged between the armature plate and the protruding portion of the bolt member when the bolt member is positioned in the protruding position, wherein the armature plate is guided linearly when the bolt member moves to the protruding position and is guided linearly when the bolt member moves away from the protruding position, and wherein the electromagnetic lock is arranged on a swinging-type door.

31. (New) The lock of claim 5, wherein the movable plate moves the retractable sliding bolt to the protruding position and the electromagnet core is arranged between the front side of the movable plate and the free end of the retractable sliding bolt.

32. (New) The lock of claim 31, wherein the electromagnet core is arranged between the movable plate and a plate having an opening through which a protruding portion of the retractable sliding bolt projects.